

Application of Satellite Remote Sensing Data for Fire and Smoke Monitoring

NASA ARSET Training
Second International Smoke Symposium
Long Beach, CA
Monday, November 14, 2016

Training Agenda

Document	Time	Topic	Format
	8:30 – 8:45am	Introduction and Logistics	Informal
	8:45 – 8:50am	ARSET program overview	Lecture
P1	8:50 – 9:30am	Satellite Capabilities for Air Quality Monitoring: An Overview <ul style="list-style-type: none">- Fundamental of RS- Current AQ capabilities- AQ Applications- Future AQ capabilities	Lecture/Discussion
P2	9:30 – 10:15am	Satellite Imagery Access, Interpretation, and Tools for Dust, Smoke, and Pollution <ul style="list-style-type: none">- Basics of RGB- Demo to Earth Observatory- Worldview exercise to access NRT RGB Exercise	Lecture /Hands-On
	10:15 – 10:30am	Break	
P3	10:30am – 12:00pm	Wildfire satellites and products <ul style="list-style-type: none">- Satellite Overview (Landsat, MODIS, VIIRS, GOES)- Wildfire Products and Tools<ul style="list-style-type: none">o LANDFIREo FIRMS<ul style="list-style-type: none">▪ Web Fire Mapper▪ MODIS Burned Area productso Worldviewo NOAA's HMSo VIIRS Active Fire Mappero RECOVER- FIRMS Web Fire Mapper Exercise	Lecture/Hands-on
	12:00 – 12:30pm	Introduction to Applied Sciences Wildfire Program by Vince Ambrosia	Lecture

	12:30 – 1:30pm	LUNCH BREAK	
E3	1:30 – 3:00pm	Satellite aerosol data for smoke air quality monitoring <ul style="list-style-type: none"> - MODIS AODs - MISR plume heights - OMI AI - Data Access - Applications 	Lecture/Hands-on
P4	3:00 – 3:30pm	Application of active fires and smoke exercise <ul style="list-style-type: none"> - VIIRS Active Fire Mapper - NOAA's HMS - Data download and visualization in Google Earth 	Lecture/Discussion
	3:30 – 3:45pm	BREAK	
E4	3:45 – 5:00pm	Application of satellite aerosol data for PM2.5 estimations <ul style="list-style-type: none"> - AOD-PM2.5 Theory - Tour and Hands on eIDEA 	Lecture/Hands-on
	5:00 – 5:30pm	Discussion and Closing Remark, Survey	Discussion
	5:30pm	Adjourn	